

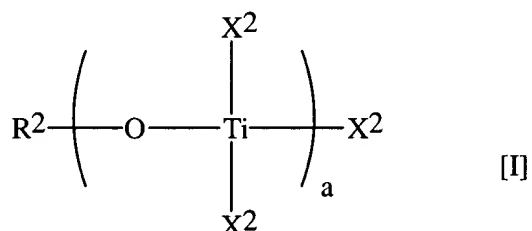
IN THE CLAIMS

Please amend the claims to read as follows:

1. (Currently Amended) A process for the producing a solid catalyst component (1) for α -olefin polymerization, which comprises the steps of:

(1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond, thereby obtaining a solid product, and

(2) contacting the solid product with a halogeno compound of the ~~14~~ Group 14 element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining the solid catalyst component (1) for α -olefin polymerization,



wherein "a" is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

2. (Currently Amended) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein the step (2) comprises:

(i) contacting the solid product with the electron donor compound (E1) to obtain a contacted product, and

(ii) contacting the contacted product obtained with the halogeno compound of the ~~14-g~~ Group 14 element and a compound having a Ti-halogen bond.

3. (Currently Amended) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein the step (2) comprises:

(i) contacting the solid product with the compound having a Ti-halogen bond and the organic acid halide to obtain a contacted product, and

(ii) contacting the contacted product obtained with the halogeno compound of the ~~14-g~~ Group 14 element, the electron donor compound (E1) and the compound having a Ti-halogen bond.

4. (Currently Amended) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein the step (2) comprises:

(i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,

(ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtain a contacted product,

(iii) contacting the contacted product obtained in the above (ii) with a mixture of the halogeno compound of the ~~14-g~~ Group 14 element, a carboxylic acid ester and an ether to obtain a contacted product, and

(iv) contacting two times the contacted product obtained in the above (iii) with a mixture of the compound having a Ti-halogen bond and an ether.

5. (Currently Amended) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein the step (2) comprises:

(i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,

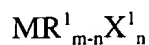
(ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtain a contacted product,

(iii) contacting the contacted product obtained in the above (ii) with a mixture of the compound having a Ti-halogen bond, a carboxylic acid ester and an ether to obtain a contacted product,

(iv) contacting the contacted product obtained in the above (iii) with a mixture of the halogeno compound of the ~~14-g~~ Group 14 element and an ether to obtain a contacted product, and

(v) contacting the contacted product obtained in the above (iv) with a mixture of the compound having a Ti-halogen bond and an ether.

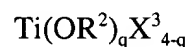
6. (Currently Amended) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein the halogeno compound of the ~~14-g~~ Group 14 element contains a compound represented by the following formula,



wherein M is an atom belonging to the ~~14th~~ Group 14, R¹ is a hydrocarbon group having 1 to 20 carbon atoms, X¹ is a halogen atom, m is a valence of M, and n is a number satisfying $0 < n \leq m$.

7. (Original) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 6, wherein M contains a silicon atom.

8. (Original) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein the titanium compound contains a compound represented by the following formula,



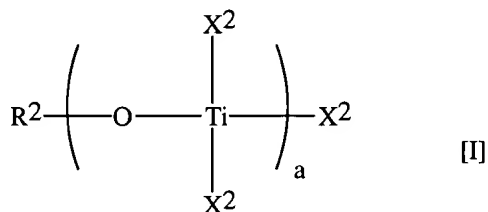
wherein R² is a hydrocarbon group having 1 to 20 carbon atoms, X³ is a halogen atom, and q is a number satisfying $0 < q \leq 4$.

9. (Original) The process for producing a solid catalyst component (1) for α -olefin polymerization according to Claim 1, wherein "a" in the formula [I] is 2 or 4.

10. (Currently Amended) A process for producing a solid catalyst component (2) for α -olefin polymerization, which comprises the steps of:

(1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond and an ester compound, thereby obtaining a solid product, and

(2) contacting the solid product with a halogen compound of the ~~14~~g Group 14 element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining the solid catalyst component (2) for α -olefin polymerization,



wherein “a” is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

11. (Currently Amended) The process for producing a solid catalyst component (~~12~~) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:

(i) contacting the solid product with the electron donor compound (E1) to obtain a contacted product, and

(ii) contacting the contacted product obtained with the halogeno compound of the ~~14~~g Group 14 element and the compound having a Ti-halogen bond.

12. (Currently Amended) The process for producing a solid catalyst component (~~12~~) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:

(i) contacting the solid product with the compound having a Ti-halogen bond and the organic acid halide to obtain a contacted product, and

(ii) contacting the contacted product obtained with the halogeno compound of the ~~14g~~ Group 14 element, the electron donor compound (E1) and the compound having a Ti-halogen bond.

13. (Currently Amended) The process for producing a solid catalyst component (~~12~~) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:

(i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,

(ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtain a contacted product,

(iii) contacting the contacted product obtained in the above (ii) with a mixture of the halogeno compound of the ~~14g~~ Group 14 element, a carboxylic acid ester and an ether to obtain a contacted product, and

(iv) contacting two times the contacted product obtained in the above (iii) with a mixture of the compound having a Ti-halogen bond and an ether.

14. (Currently Amended) The process for producing a solid catalyst component (~~12~~) for α -olefin polymerization according to Claim 10, wherein the step (2) comprises:

(i) contacting the solid product with a mixture of the compound having a Ti-halogen bond and an ether to obtain a contacted product,

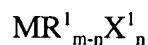
(ii) contacting the contacted product obtained in the above (i) with the organic acid halide to obtain a contacted product,

(iii) contacting the contacted product obtained in the above (ii) with a mixture of the compound having a Ti-halogen bond, a carboxylic acid ester and an ether to obtain a contacted product,

(iv) contacting the contacted product obtained in the above (iii) with a mixture of the halogeno compound of the ~~14-g~~ Group 14 element and an ether to obtain a contacted product, and

(v) contacting the contacted product obtained in the above (iv) with a mixture of the compound having a Ti-halogen bond and an ether.

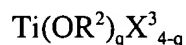
15. (Currently Amended) The process for producing a solid catalyst component (~~12~~) for α -olefin polymerization according to Claim 10, wherein the halogeno compound of the ~~14-g~~ Group 14 element contains a compound represented by the following formula,



wherein M is an atom belonging to the ~~14-g~~ Group 14, R^1 is a hydrocarbon group having 1 to 20 carbon atoms, X^1 is a halogen atom, m is a valence of M, and n is a number satisfying $0 < n \leq m$.

16. (Currently Amended) The process for producing a solid catalyst component (~~12~~) for α -olefin polymerization according to Claim 15, wherein M contains a silicon atom.

17. (Currently Amended) The process for producing a solid catalyst component (±2) for α -olefin polymerization according to Claim 10, wherein the titanium compound contains a compound represented by the following formula,



wherein R^2 is a hydrocarbon group having 1 to 20 carbon atoms, X^3 is a halogen atom, and q is a number satisfying $0 < q \leq 4$.

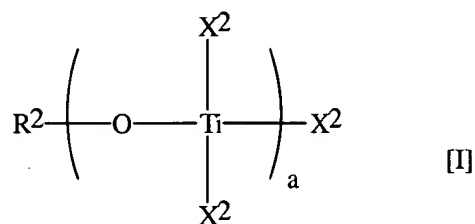
18. (Currently Amended) The process for producing a solid catalyst component (±2) for α -olefin polymerization according to Claim 10, wherein “a” in the formula [I] is 2 or 4.

19. (Currently Amended) A process for producing a catalyst (1) for α -olefin polymerization, which comprises the steps of:

(1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond, thereby obtaining a solid product,

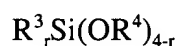
(2) contacting the solid product with a halogeno compound of the ~~14~~ Group 14 element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining a solid catalyst component (1) for α -olefin polymerization, and

(3) contacting the solid catalyst component (1), an organoaluminum compound and an electron donor compound (E2) with one another, thereby obtaining the catalyst (1) for α -olefin polymerization,



wherein “a” is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

20. (Original) The process for producing a catalyst (1) for α -olefin polymerization according to Claim 19, wherein the electron donor compound (E2) contains an alkoxysilicon compound represented by the following formula,



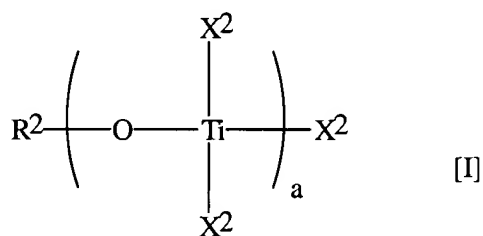
wherein R^3 is a hydrocarbon group having 1 to 20 carbon atoms or a hydrogen atom, R^4 is a hydrocarbon group having 1 to 20 carbon atoms, r is a number satisfying $0 < r \leq 4$, and all of R^3 and all of R^4 may be the same or different from one another, respectively.

21. (Original) A process for producing a catalyst (2) for α -olefin polymerization, which comprises the steps of:

(1) reducing a titanium compound represented by the following formula [I] with an organomagnesium compound in the presence of an organosilicon compound having an Si-O bond and an ester compound, thereby obtaining a solid product,

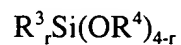
(2) contacting the solid product with a halogeno compound of the ~~14~~^g Group 14 element, at least one member selected from the group consisting of an electron donor compound (E1) and an organic acid halide, and a compound having a Ti-halogen bond, thereby obtaining a solid catalyst component (2) for α -olefin polymerization, and

(3) contacting the solid catalyst component (2), an organoaluminum compound and an electron donor compound (E2) with one another, thereby obtaining the catalyst (2) for α -olefin polymerization,



wherein "a" is a number of 1 to 20, R^2 is a hydrocarbon group having 1 to 20 carbon atoms, and X^2 is a halogen atom or a hydrocarbyloxy group having 1 to 20 carbon atoms, and all of X^2 may be the same or different from one another.

22. (Original) The process for producing a catalyst (2) for α -olefin polymerization according to Claim 21, wherein the electron donor compound (E2) contains an alkoxysilicon compound represented by the following formula,



wherein R^3 is a hydrocarbon group having 1 to 20 carbon atoms or a hydrogen atom, R^4 is a hydrocarbon group having 1 to 20 carbon atoms, r is a number satisfying $0 < r \leq 4$, and all of R^3 and all of R^4 may be the same or different from one another, respectively.

23. (Cancelled)

24. (Cancelled)